(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International publication date 5 August 2004 (05.08.2004)

(10) International publication number

WO 2004/065880 A1

(51) International patent classification⁷:

F28F 9/00

(21) International application number:

PCT/EP2003/012765

(22) International filing date:

14 November 2003 (14.11.2003)

(25) Language of filing:

German

(26) Language of publication:

German

(30) Data relating to the priority:

03290129.0

17 January 2003 (17.01.2003)

EP

(71) Applicant (for all designated States except US): BEHR LORRAINE S.A.R.L. [FR/FR]; Zone Europole Sarreguemines, F-57912 Hambach Cedex (FR).

(72) Inventors; and

(75) Inventors/Applicants (US only): KACZMAREK, Fabrice [FR/FR]; 16a, rue de Monswiller, F-67700 Saverne (FR). MEYER, Jean-Claude [FR/FR]; 48, rue de le chapelle, F-57200 Wiesviller (FR). JUNG, Patrick [FR/FR]; 10, impasse des Jonquilles, F-57910 Roth (FR).

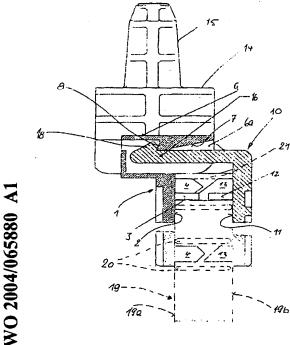
(81) Designated states (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

[continued on next page]

As printed

(54) Title: HOLDER FOR A HEAT EXCHANGER

(54) Bezeichnung: HALTER FÜR EINEN WÄRMEÜBERTRAGER



(57) Abstract: The invention relates to a holder for fixing additional parts to a fin-tube block (19) of a heat exchanger and/or for supporting the heat exchanger, said fin-tube block (19) comprising parallel front surfaces (19a, 19b) and lateral surfaces or lateral parts (21). According to the invention, the holder is embodied as a clip connection consisting of two lockable plastic clip elements (1, 10) which receive the fin-tube block (19) thereinbetween.

(57) Zusammenfassung: Die Erfindung betrifft einen Halter zur Befestigung von Zusatzteilen an einem Wärmeübertragers Rohr/Rippenblock (19) eines und/oder zur Abstützung des Wärmeübertragers, wobei der Rohr/Rippenblock (19) parallel zueinander angeordnete Stirnflächen (19a, 19b) und Seitenflächen bzw. Seitenteilen (21) aufweist. Es wird vorgeschlagen, dass der Halter als Clipsverbindung von zwei miteinander verrastbaren, den Rohr/Rippenblock(19) zwischen sich aufnehmenden Klemmelementen (1, 10) aus Kunststoff ausgebildet ist.

(84) Designated states (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17

of inventorship (Rule 4.17(iv)) for the following designation US

Published:

- With International Search Report.
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For an explanation of the two-letter codes and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.